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# Memorandum

The City of Traverse City  
Engineering Department



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TO: Timothy J. Lodge, P.E., City Engineer  
FROM: Jessica Carpenter, EIT, Engineering Technician  
DATE: Monday, November 17, 2014  
SUBJECT: Executive Summary for 2014 Speed Counts

The City of Traverse City Engineering Department conducted 28 on site speed counts during the summer of 2014. Data was recorded at each location between 1 and 14 days.

The Jamar radar recorders and tube counters gathered data for each lane of traffic; one lane north (or east) bound and one lane south (or west) bound. The speeds of each vehicle were recorded in the device and then compiled into TraxPro where the lanes were combined into one report, regardless of direction. The report divided the speeds into groups starting with 1-15 mph and each successive group at 5 mph increments. Each group shows how many vehicles were within that specific range of speed and at what times.

A summary of each location is shown below:

## **6<sup>th</sup> St between Spruce St and Cedar St**

Thursday, May 8 – Thursday, May 15

- Speed Limit: 25 mph
- Average Speed: 24 mph
- Percent > 25 mph: 59.0%
- Total Number of Vehicles: 17,118
- 24-hr ADT Weekday: 2863 vehicles
- 85<sup>th</sup> Percentile: 30 mph
- 95<sup>th</sup> Percentile: 34 mph

## **7<sup>th</sup> St between Spruce St and Cedar St**

Thursday, May 8 – Thursday, May 15

- Speed Limit: 25 mph
- Average Speed: 23 mph
- Percent > 25 mph: 58.8%
- Total Number of Vehicles: 27,327
- 24-hr ADT Weekday: 4550 vehicles
- 85<sup>th</sup> Percentile: 28 mph
- 95<sup>th</sup> Percentile: 32 mph



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**15<sup>th</sup> St between Cass St and Union St**

Tuesday, June 10 – Wednesday, June 17

- Speed Limit: 25 mph
- Average Speed: 21 mph
- Percent > 25 mph: 41.5%
- Total Number of Vehicles: 6,877
- 24-hr ADT Weekday: 1130 vehicles
- 85<sup>th</sup> Percentile: 28 mph
- 95<sup>th</sup> Percentile: 31 mph

**Birchwood Ave between Eastern Ave and Aspen Dr**

Friday, July 18 – Thursday, July 24

- Speed Limit: 25 mph
- Average Speed: 27 mph
- Percent > 25 mph: 77.5%
- Total Number of Vehicles: 11,607
- 24-hr ADT Weekday: 2022 vehicles
- 85<sup>th</sup> Percentile: 33 mph
- 95<sup>th</sup> Percentile: 37 mph

**Carver St between Rose St and Grant St**

Thursday, May 22 – Friday, May 23

- Speed Limit: 25 mph
- Average Speed: 27 mph
- Percent > 25 mph: 74.2%
- Total Number of Vehicles: 4630
- 24-hr ADT Weekday: 4630 vehicles
- 85<sup>th</sup> Percentile: 31 mph
- 95<sup>th</sup> Percentile: 34 mph

**Carver St between Rose St and Fern St\*\***

Wednesday, July 29 – Thursday, July 30

- Speed Limit: 25 mph
- Average Speed: 28 mph
- Percent > 25 mph: 78.0%
- Total Number of Vehicles: 4688
- 24-hr ADT Weekday: 4227 vehicles
- 85<sup>th</sup> Percentile: 32 mph
- 95<sup>th</sup> Percentile: 35 mph



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## **Cass between Eleventh St and Tenth St**

Wednesday, June 24 – Wednesday, July 1

- Speed Limit: 25 mph
- Average Speed: 24 mph
- Percent > 25 mph: 49.1%
- Total Number of Vehicles: 72,038
- 24-hr ADT Weekday: 11,188 vehicles
- 85<sup>th</sup> Percentile: 29 mph
- 95<sup>th</sup> Percentile: 31 mph

## **Cass between Ninth St and Tenth St**

Wednesday, June 24 – Wednesday, July 1

- Speed Limit: 25 mph
- Average Speed: 22 mph
- Percent > 25 mph: 37.8%
- Total Number of Vehicles: 69,070
- 24-hr ADT Weekday: 10,666 vehicles
- 85<sup>th</sup> Percentile: 28 mph
- 95<sup>th</sup> Percentile: 30 mph

## **Cass between Thirteenth St and Twelfth St\***

Thursday, July 2 – Thursday, July 16

- Speed Limit: 25 mph
- Average Speed: 24 mph
- Percent > 25 mph: 45.0%
- Total Number of Vehicles: 145,464
- 24-hr ADT Weekday: 10,933 vehicles
- 85<sup>th</sup> Percentile: 29 mph
- 95<sup>th</sup> Percentile: 33 mph

## **E Eighth St between Wenonah Ave and S East Bay Blvd\*\***

Tuesday, May 19 – Sunday, May 24

- Speed Limit: 25 mph
- Average Speed: 24 mph
- Percent > 25 mph: 54.3%
- Total Number of Vehicles: 7482
- 24-hr ADT Weekday: 1458 vehicles
- 85<sup>th</sup> Percentile: 30 mph
- 95<sup>th</sup> Percentile: 33 mph



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## Tuesday, July 29 – Tuesday, August 5 (Post-Striping)

- Speed Limit: 25 mph
- Average Speed: 24 mph
- Percent > 25 mph: 65.3%
- Total Number of Vehicles: 10,403
- 24-hr ADT Weekday: 1582 vehicles
- 85<sup>th</sup> Percentile: 29 mph
- 95<sup>th</sup> Percentile: 32 mph

## E Front St between Wenonah St and Huron St

Tuesday, June 10 – Wednesday, June 11

- Speed Limit: 25 mph
- Average Speed: 25 mph
- Percent > 25 mph: 64.8%
- Total Number of Vehicles: 986
- 24-hr ADT Weekday: 929 vehicles
- 85<sup>th</sup> Percentile: 31 mph
- 95<sup>th</sup> Percentile: 34 mph

## Elmwood Ave between Front St and Sixth St\*\*

Wednesday, July 29 – Thursday, July 30

- Speed Limit: 25 mph
- Average Speed: 25 mph
- Percent > 25 mph: 51.2%
- Total Number of Vehicles: 2,277
- 24-hr ADT Weekday: 2,171 vehicles
- 85<sup>th</sup> Percentile: 29 mph
- 95<sup>th</sup> Percentile: 32 mph

## Hastings between Centre St and Carver St

Friday, May 30 – Wednesday, June 4

- Speed Limit: 25 mph
- Average Speed: 29 mph
- Percent > 25 mph: 86.9%
- Total Number of Vehicles: 26,391
- 24-hr ADT Weekday: 6726 vehicles
- 85<sup>th</sup> Percentile: 34 mph
- 95<sup>th</sup> Percentile: 37 mph

Monday, August 18 – Thursday, August 28

- Speed Limit: 25 mph



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- Average Speed: 28 mph
  - Percent > 25 mph: 76.5%
  - Total Number of Vehicles: 51,858
  - 24-hr ADT Weekday: 6189 vehicles
  - 85<sup>th</sup> Percentile: 35 mph
  - 95<sup>th</sup> Percentile: 39 mph

## **N East Bay Blvd between Eastern Ave and Western St**

Thursday, July 17 – Friday, July 18

- Speed Limit: 25 mph
- Average Speed: 28 mph
- Percent > 25 mph: 64.9%
- Total Number of Vehicles: 823
- 24-hr ADT Weekday: 823 vehicles
- 85<sup>th</sup> Percentile: 33 mph
- 95<sup>th</sup> Percentile: 36 mph

## **S East Bay Blvd between Chippewa and Sequoia**

Friday, July 18 – Friday, July 25

- Speed Limit: 25 mph
- Average Speed: 23 mph
- Percent > 25 mph: 57.7%
- Total Number of Vehicles: 10,772
- 24-hr ADT Weekday: 1539 vehicles
- 85<sup>th</sup> Percentile: 28 mph
- 95<sup>th</sup> Percentile: 31 mph

## **S Elmwood between Sixth St and Seventh St**

Tuesday, June 24 – Wednesday, June 25

- Speed Limit: 25 mph
- Average Speed: 22 mph
- Percent > 25 mph: 23.1%
- Total Number of Vehicles: 3726
- 24-hr ADT Weekday: 3391 vehicles
- 85<sup>th</sup> Percentile: 26 mph
- 95<sup>th</sup> Percentile: 29 mph

## **S Garfield between Washington St and Webster St**

Friday, May 30 – Wednesday, June 6



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- Speed Limit: 25 mph
  - Average Speed: 29 mph
  - Percent > 25 mph: 73.7%
  - Total Number of Vehicles: 64,363
  - 24-hr ADT Weekday: 14,560 vehicles
  - 85<sup>th</sup> Percentile: 33 mph
  - 95<sup>th</sup> Percentile: 36 mph

## Monday, August 18 – Thursday, August 28

- Speed Limit: 25 mph
- Average Speed: 29 mph
- Percent > 25 mph: 69.6%
- Total Number of Vehicles: 132,338
- 24-hr ADT Weekday: 14,687 vehicles
- 85<sup>th</sup> Percentile: 33 mph
- 95<sup>th</sup> Percentile: 36 mph

## **S Madison St between the North and South Entrances of Circle Dr**

Tuesday, June 24 – Wednesday, June 25

- Speed Limit: 25 mph
- Average Speed: 23 mph
- Percent > 25 mph: 58.7%
- Total Number of Vehicles: 2087
- 24-hr ADT Weekday: 1427 vehicles
- 85<sup>th</sup> Percentile: 28 mph
- 95<sup>th</sup> Percentile: 31 mph

## **W Front St between Hall St and Oak St**

Monday, October 27 – Monday, November 3

- Speed Limit: 25 mph
- Average Speed: 23 mph
- Percent > 25 mph: 65.2%
- Total Number of Vehicles: 79,337
- 24-hr ADT Weekday: 12,308 vehicles
- 85<sup>th</sup> Percentile: 28 mph
- 95<sup>th</sup> Percentile: 31 mph

## **Webster St between Wellington St and Franklin St\***

Monday, July 2 – Thursday, July 9

- Speed Limit: 25 mph

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- Average Speed: 17 mph
  - Percent > 25 mph: 6.9%
  - Total Number of Vehicles: 5974
  - 24-hr ADT Weekday: 713 vehicles
  - 85<sup>th</sup> Percentile: 23 mph
  - 95<sup>th</sup> Percentile: 26 mph

## **Wenonah St between Shawnee and Iroquois\*\***

Monday, May 19 – Thursday, May 29

- Speed Limit: 25 mph
- Average Speed: 25 mph
- Percent > 25 mph: 67.5%
- Total Number of Vehicles: 11,744
- 24-hr ADT Weekday: 1317 vehicles
- 85<sup>th</sup> Percentile: 32 mph
- 95<sup>th</sup> Percentile: 35 mph

Tuesday, July 29 – Tuesday, August 5

- Speed Limit: 25 mph
- Average Speed: 27 mph
- Percent > 25 mph: 61.7%
- Total Number of Vehicles: 6129
- 24-hr ADT Weekday: 1008 vehicles
- 85<sup>th</sup> Percentile: 32 mph
- 95<sup>th</sup> Percentile: 35 mph

\* Please note that the Cherry Festival was occurring from July 4<sup>th</sup> to July 11<sup>th</sup> (during these speed counts)

\*\* Please note that the Film Festival was occurring from July 29<sup>th</sup> to August 3<sup>rd</sup> (during these associated counts)

Enclosed: Location Map